

Table I (3 of 3)  
Identification of Achievable Performance Standards  
Source Category: Polyester Resin Operations

Regulated Component	Pollutant	Rule/Measure/Date							
		Determination of RACT/BARCT for Polyester Resin Operations CARB 1/8/91							
		Performance Standard							
Compounds exempt in all rules.	VOC	Carbon monoxide Carbon dioxide Carbonic acid Metallic carbides or carbonates Ammonium carbonate Methane							

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There are approximately 20 additional compounds exempt in the following districts, unless indicated otherwise:  COLAPCD SACAQMD SBAPCD SCAQMD SDAPCD SJUAPCD YSAQMD VENAPCD		Some of the 20 compounds are not exempt, which includes the following: 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124), 1,1,1-trifluoroethane (HFC-143a), 1,1-difluoroethane (HFC-152a), and saturated perfluorocarbons containing sulfur with sulfur bonds only to carbon and fluorine, cyclic, branched, or linear completely fluorinated alkanes, ethers with no unsaturations, and tertiary amines with no unsaturations.							
General Polyester Resin Material	VOC	x	<35% by weight monomer content						
Resin Containing Vapor Suppressant	VOC	x	weight loss from VOC emissions < 60 g/sq. m						
Closed-mold System	VOC		Yes, no limit.						

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High Strength Materials	VOC		See Specialty Resins.								
Specialty Resins	VOC	x	<50% monomer content by weight								
Corrosion-resistant Materials	VOC		See Specialty Resins.								
Fire Retardant Materials	VOC		See Specialty Resins.								
Cleaning Materials	VOC		When cleaning materials containing >1.7 lbs of VOC per gallon or having initial boiling point < 190° C exceeds 4 gallons per day, a cleaning material reclamation system with >80% efficiency shall be used. Solvent residues for the system shall be < 20% VOC by weight.								
Gel Coat	VOC		See clear gel coat and pigmented gel coat.								
Clear Gel Coat	VOC	x	<50% monomer content by weight								
Pigmented Gel Coat	VOC	x	<45% monomer content								

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		by weight							
Alternative Emission Control Requirements (in lieu of meeting process standards)	VOC	>85% control and capture efficiency							
Pultrusion Operations	VOC	None.							
Surface Preparation	VOC	None.							
Spraying Operations	VOC	Use airless spray, air-assisted airless spray, electrostatic spray, high-volume/low-pressure spray.							
Resin Baths	VOC	None.							
Compound Limitations	VOC	None.							
Monitoring and Records	VOC	N Q Shall maintain list of polyester resins, catalyst, cleaning material, % VOC in polyester resin materials, and grams of VOC per liter for cleaning materials.							
Monitoring and Records (continued)		For vapor suppressed resins maintain list of							

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		weight loss during polymerization, monomer % and gel time.  Daily records of amount of polyester resin materials and cleaning materials used, and volume of resin and cleaning materials used for touch-up and repair.  Retain all records for the previous 24 month period.						
Storage  Storage (continued)	VOC	Use closed containers to store all polyester resin materials, cleaning materials, and any unused VOC-containing materials, and scrap materials resulting from cutting and grinding of freshly cured resins except when accessed for use.						
Disposal	VOC	Use self-closing containers for disposal						

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Performance Standard											
		of all uncured polyester resin materials, cleaning materials, waste materials, and any un-used VOC-containing materials.									

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